

The Naughty Step

Marek Isalski — @maznu

Faelix Limited — <https://faelix.net/>

```
sshd[17284]: Failed password for root from 116.31.116.33 port 29109 ssh2
sshd[17284]: Failed password for root from 116.31.116.33 port 29109 ssh2
sshd[17284]: Failed password for root from 116.31.116.33 port 29109 ssh2
sshd[17284]: Received disconnect from 116.31.116.33: 11: [preauth]
```

ssh

SMTP
IMAP
POP

```
SASL authentication failure: Password verification failed
unknown[96.243.171.69]: SASL PLAIN authentication failed: authentication failure
nat71.udea.edu.co[200.24.16.71]: SASL LOGIN authentication failed: authentication failure
unknown[185.40.4.121]: SASL LOGIN authentication failed: authentication failure
SASL authentication failure: Password verification failed
mail.crislu.com[162.251.89.66]: SASL PLAIN authentication failed: authentication failure
unknown[185.40.4.121]: SASL LOGIN authentication failed: authentication failure
unknown[185.40.4.121]: SASL LOGIN authentication failed: authentication failure
unknown[185.40.4.121]: SASL LOGIN authentication failed: authentication failure
SASL authentication failure: Password verification failed
unknown[96.243.171.69]: SASL PLAIN authentication failed: authentication failure
unknown[185.40.4.121]: SASL LOGIN authentication failed: authentication failure
```

```
[2016-11-09 06:38:35] NOTICE[25535][C-00005093] chan_sip.c: Call from '' (89.16
3.144.106:5070) to extension '61810970592643888' rejected because extension not
found in context 'default'.
[2016-11-09 06:38:44] NOTICE[25535][C-00005094] chan_sip.c: Call from '' (163.1
72.244.161:5071) to extension '0048632202673' rejected because extension not fo
und in context 'default'.
[2016-11-09 06:38:57] NOTICE[25535][C-00005095] chan_sip.c: Call from '' (185.4
0.4.198:5070) to extension '900441268857501' rejected because extension not fou
nd in context 'default'.
```


VOIP

WordPress

```
86.53.243.85, 46.227.202.92, 127.0.0.1 - - [09/Nov/2016:09:03:19 +0000] "POST /
wp-login.php HTTP/1.0" 200 1708 "http://www.proteusfacades.com/register/" "Mozi
lla/5.0 (Windows NT 6.1; WOW64; Trident/7.0; rv:11.0) like Gecko"
86.53.243.85, 46.227.202.92, 127.0.0.1 - - [09/Nov/2016:09:03:20 +0000] "GET /w
p-admin/load-styles.php?c=1&dir=ltr&load%5B%5D=dashicons,buttons,forms,login,log
in&ver=4.6.1 HTTP/1.0" 200 38643 "http://www.proteusfacades.com/wp-login.php" "
Mozilla/5.0 (Windows NT 6.1; WOW64; Trident/7.0; rv:11.0) like Gecko"
86.53.243.85, 46.227.202.92, 127.0.0.1 - - [09/Nov/2016:09:03:26 +0000] "POST /
wp-login.php HTTP/1.0" 302 - "http://www.proteusfacades.com/wp-login.php" "Mozi
lla/5.0 (Windows NT 6.1; WOW64; Trident/7.0; rv:11.0) like Gecko"
```

```
212.150.246.72 - - [09/Nov/2016:09:48:29 +0000] "POST /user/ HTTP/1.1" 200 2710
3 "http://www.waronwant.org/user/" "Mozilla/5.0 (Linux; U; Android 2.2) AppleWe
bKit/533.1 (KHTML, like Gecko) Version/4.0 Mobile Safari/533.1"
212.150.246.72 - - [09/Nov/2016:09:48:31 +0000] "POST /user/ HTTP/1.1" 200 2710
3 "http://www.waronwant.org/user/" "Mozilla/5.0 (Linux; U; Android 2.2) AppleWe
bKit/533.1 (KHTML, like Gecko) Version/4.0 Mobile Safari/533.1"
212.150.246.72 - - [09/Nov/2016:09:48:33 +0000] "POST /user/ HTTP/1.1" 200 2710
2 "http://www.waronwant.org/user/" "Mozilla/5.0 (Linux; U; Android 2.2) AppleWe
bKit/533.1 (KHTML, like Gecko) Version/4.0 Mobile Safari/533.1"
```

Drupal

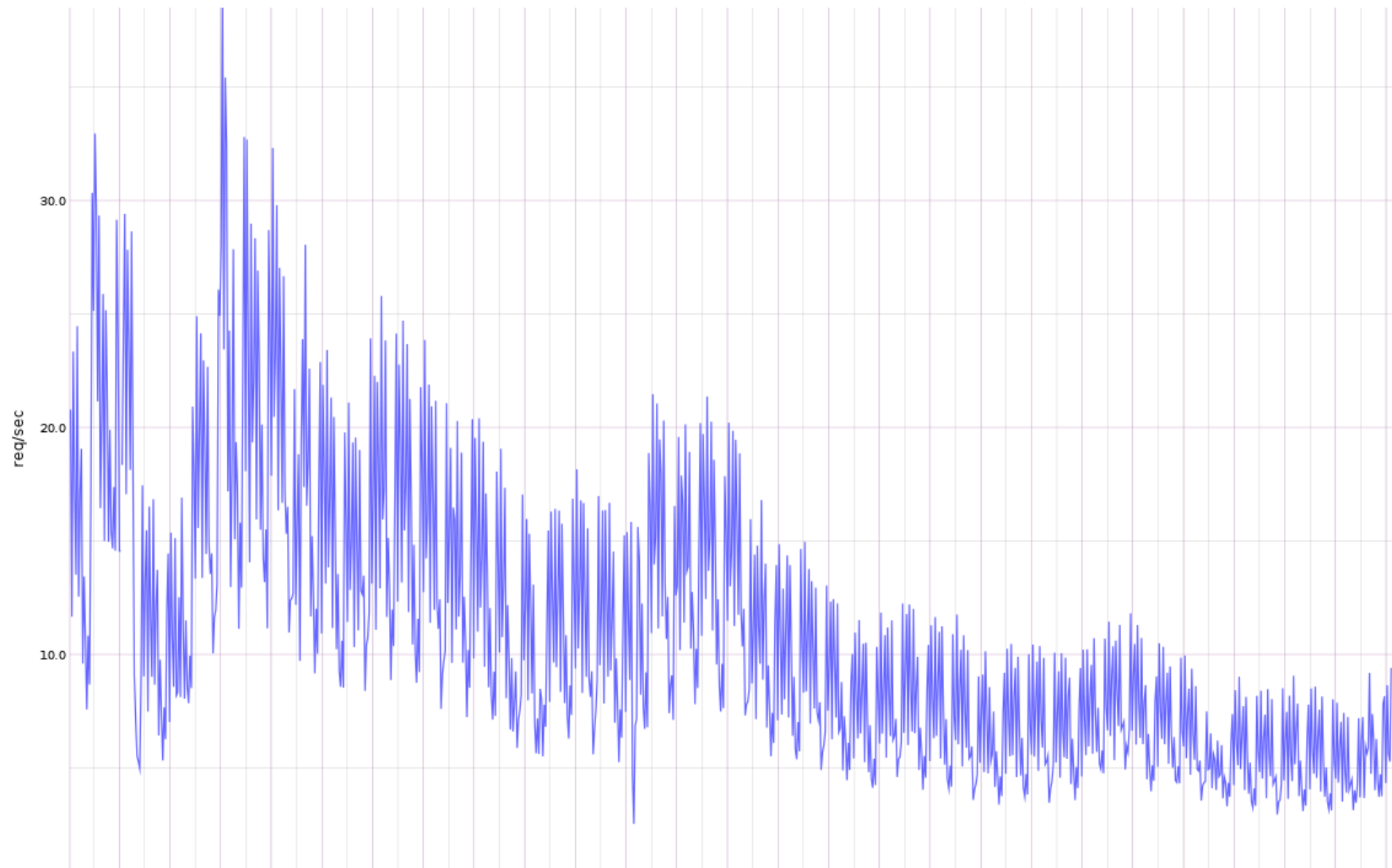
A man in a black shirt stands next to a large, dark, textured pile of material in a field. The pile is shaped like a large, dark, textured mound. The man is looking at the pile. The background shows a field with some trees and a cloudy sky.

That is one big
pile of shit!

The Naughty Step

The Shit Pit

~~The Naughty Step~~



PushDo

virus cover traffic sending 2kbytes with POST / HTTP/1.0
and opening connection to TCP port 25

omg wtf loadavg



“Security is hard.”

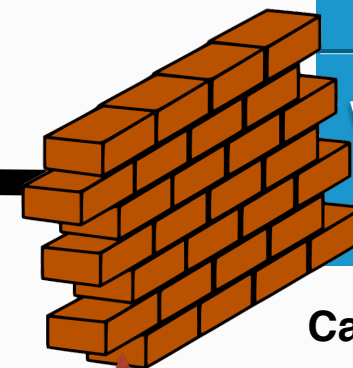
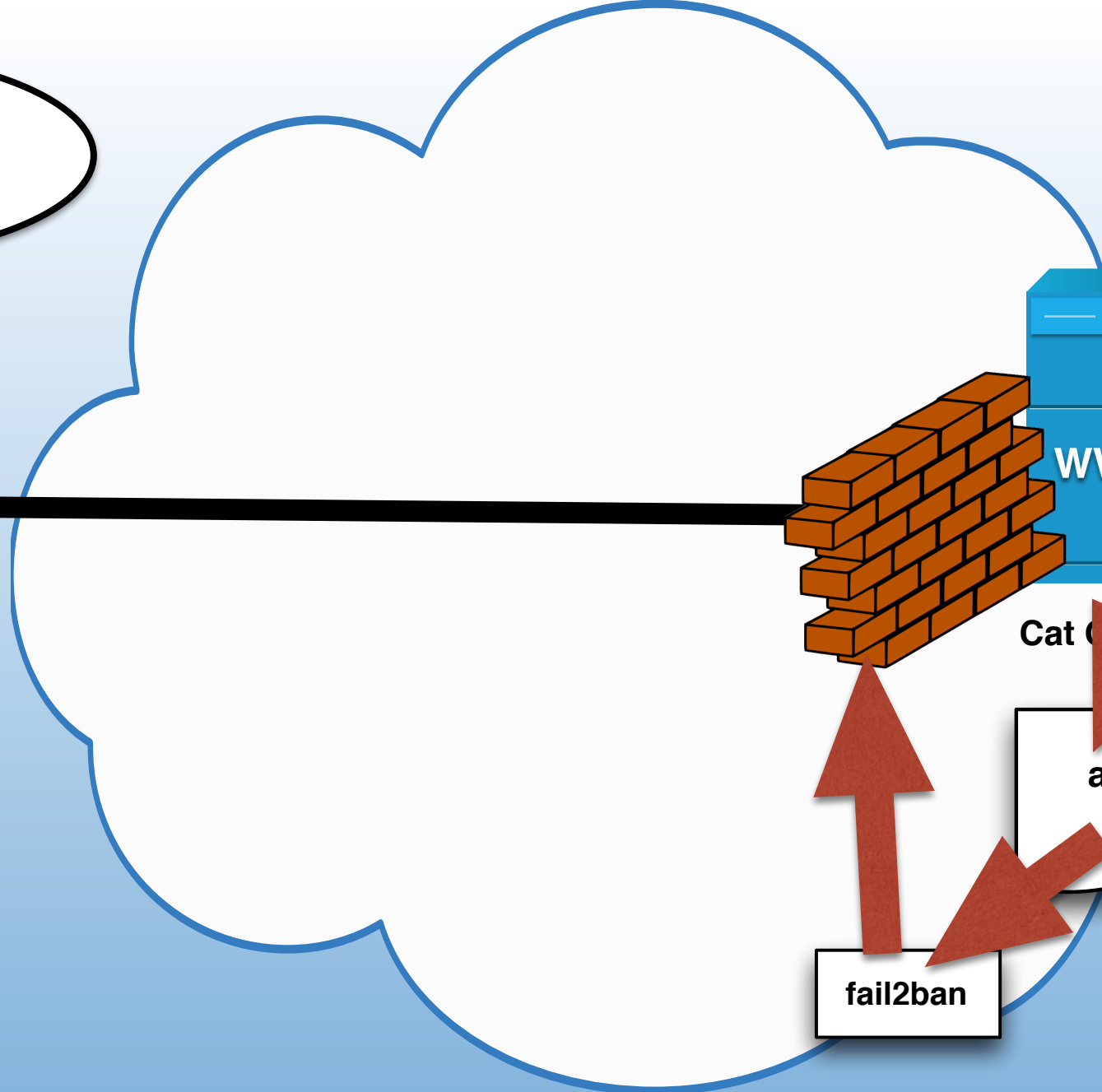
– every infosec professional ever

make DJT
root again!



Cat GIF Blog

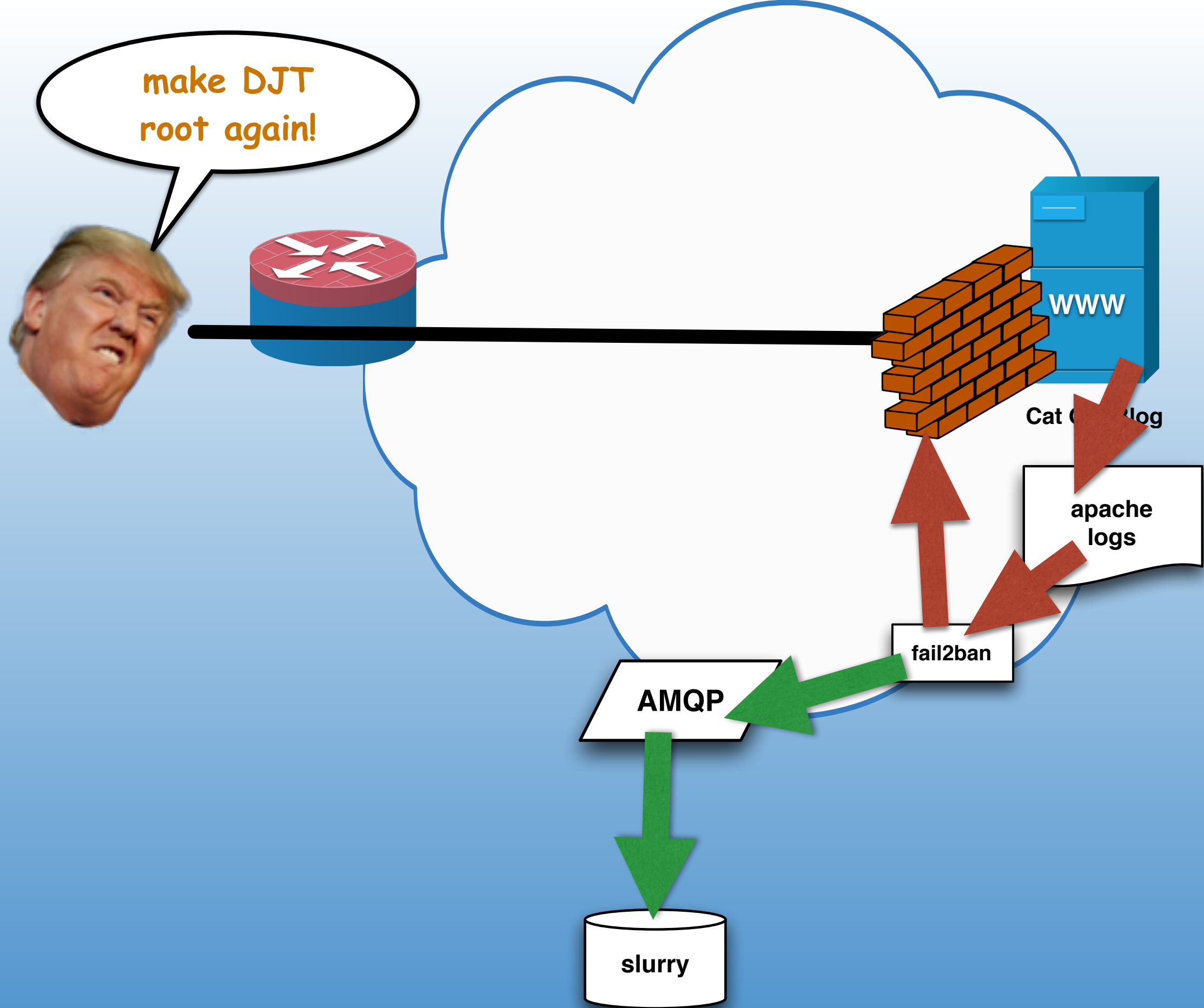
make DJT
root again!

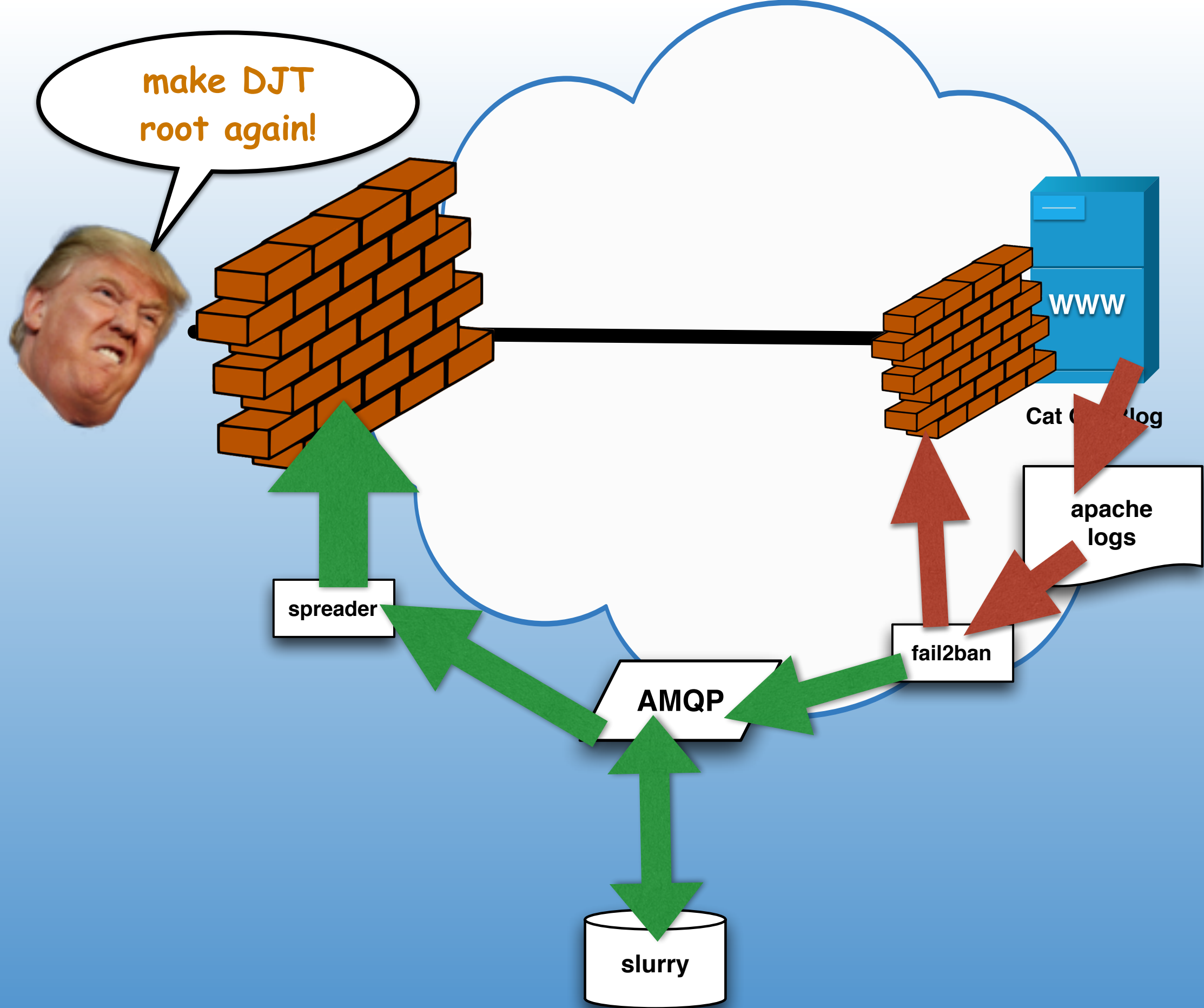


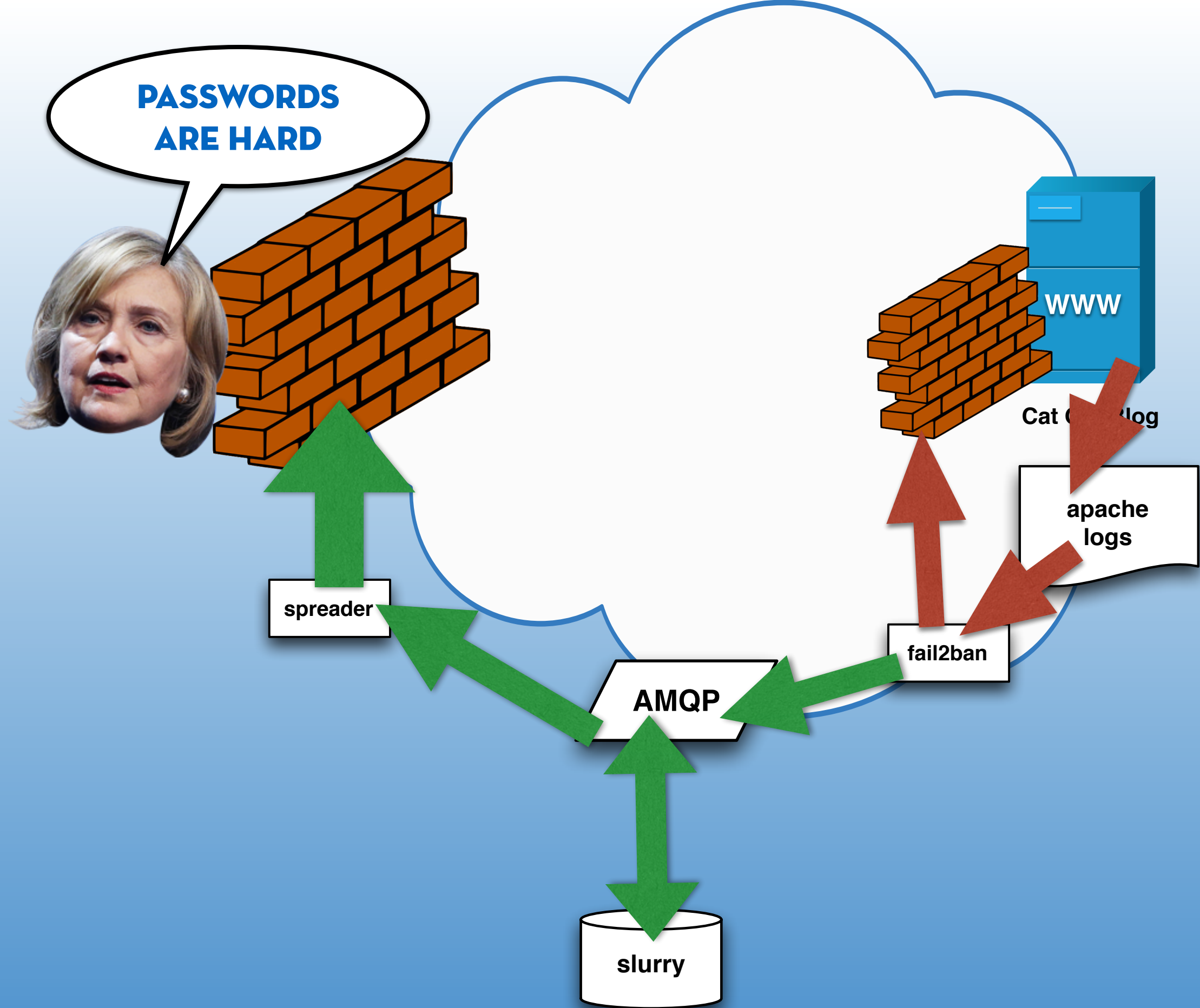
Cat / log

apache
logs

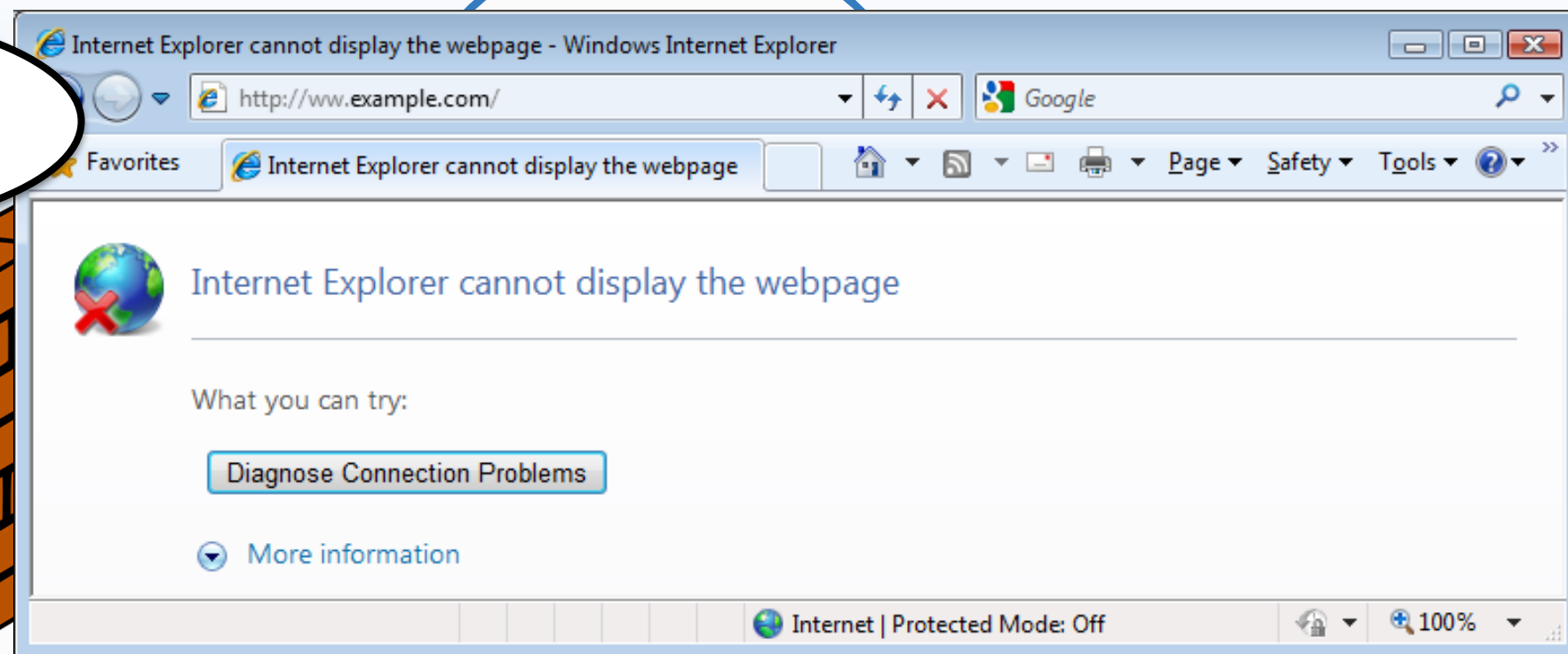
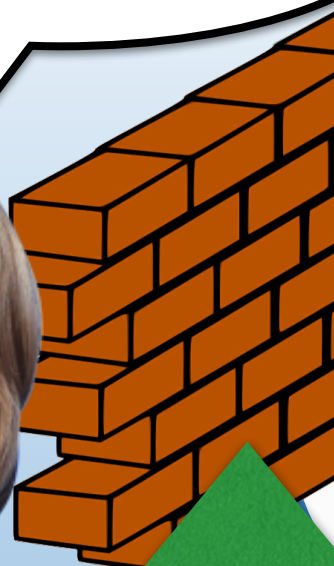
fail2ban







**PASSWORDS
ARE HARD**



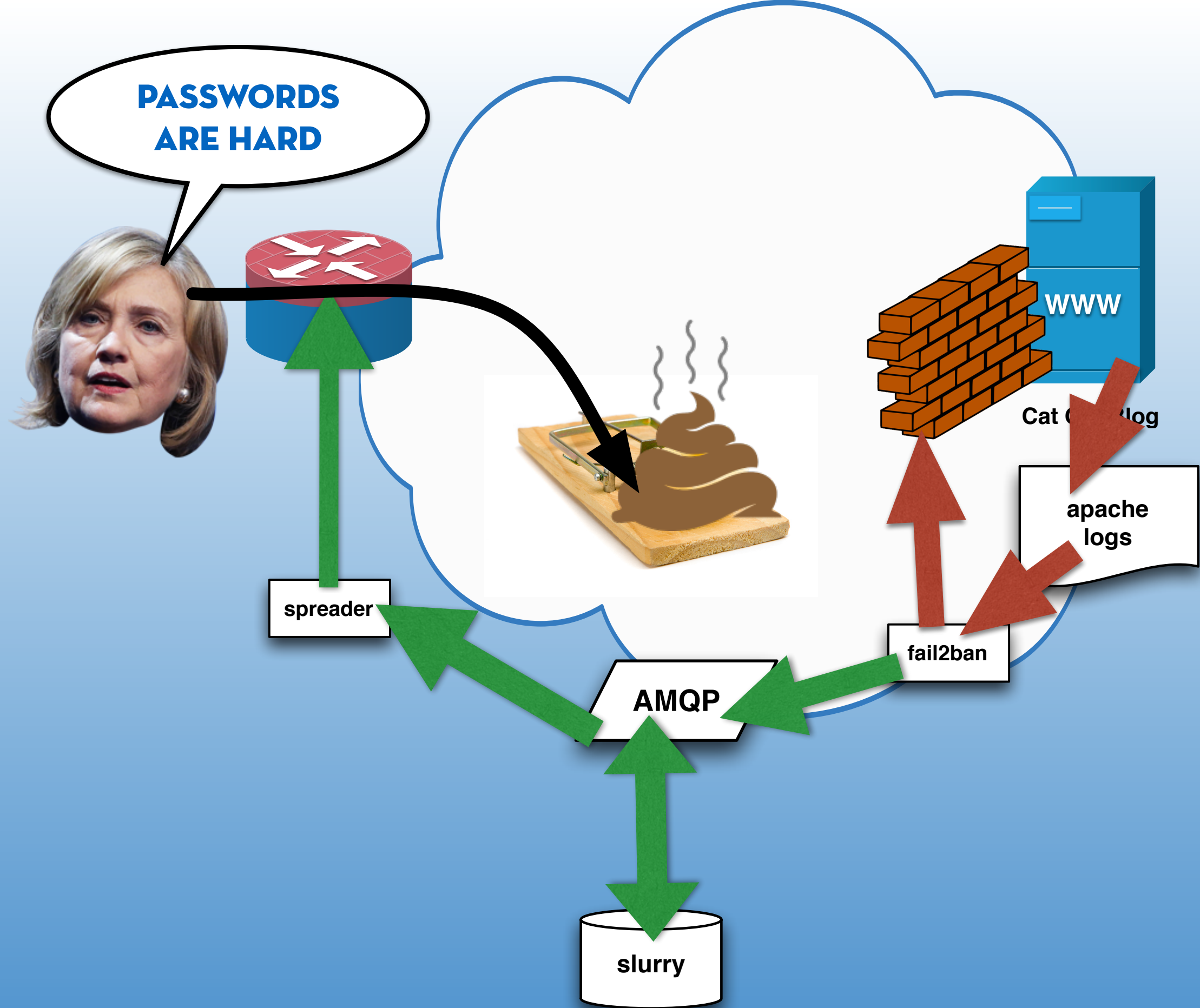
spreader

AMQP

slurry

fail2ban

apache
logs



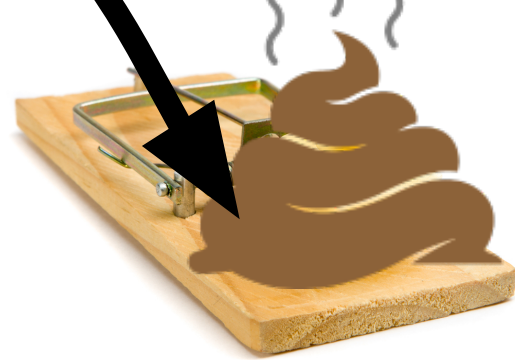
PASSWORDS
ARE HARD

```
/ip route rule  
add routing-mark=shitpit table=shitpit
```

```
/ip firewall mangle  
add action=mark-routing chain=prerouting dst-address-list=allow-inbound-dst new-  
routing-mark=shitpit passthrough=yes src-address-list=shitpit
```

```
/ip route  
add distance=1 gateway:
```

```
routing-mark=shitpit
```



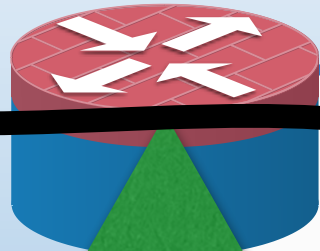
spreader

fail2ban

AMQP

slurry

**PASSWORDS
ARE HARD**



spreader

Your address has been blacklisted



Due to abusive network traffic originating from your IP address, we have blocked your access to sites and servers that are hosted on our network.

The block will be lifted in a short while, but will be re-applied as soon as we detect similar activity again. Blocks will increase in length if we continue to detect malicious traffic from your address.

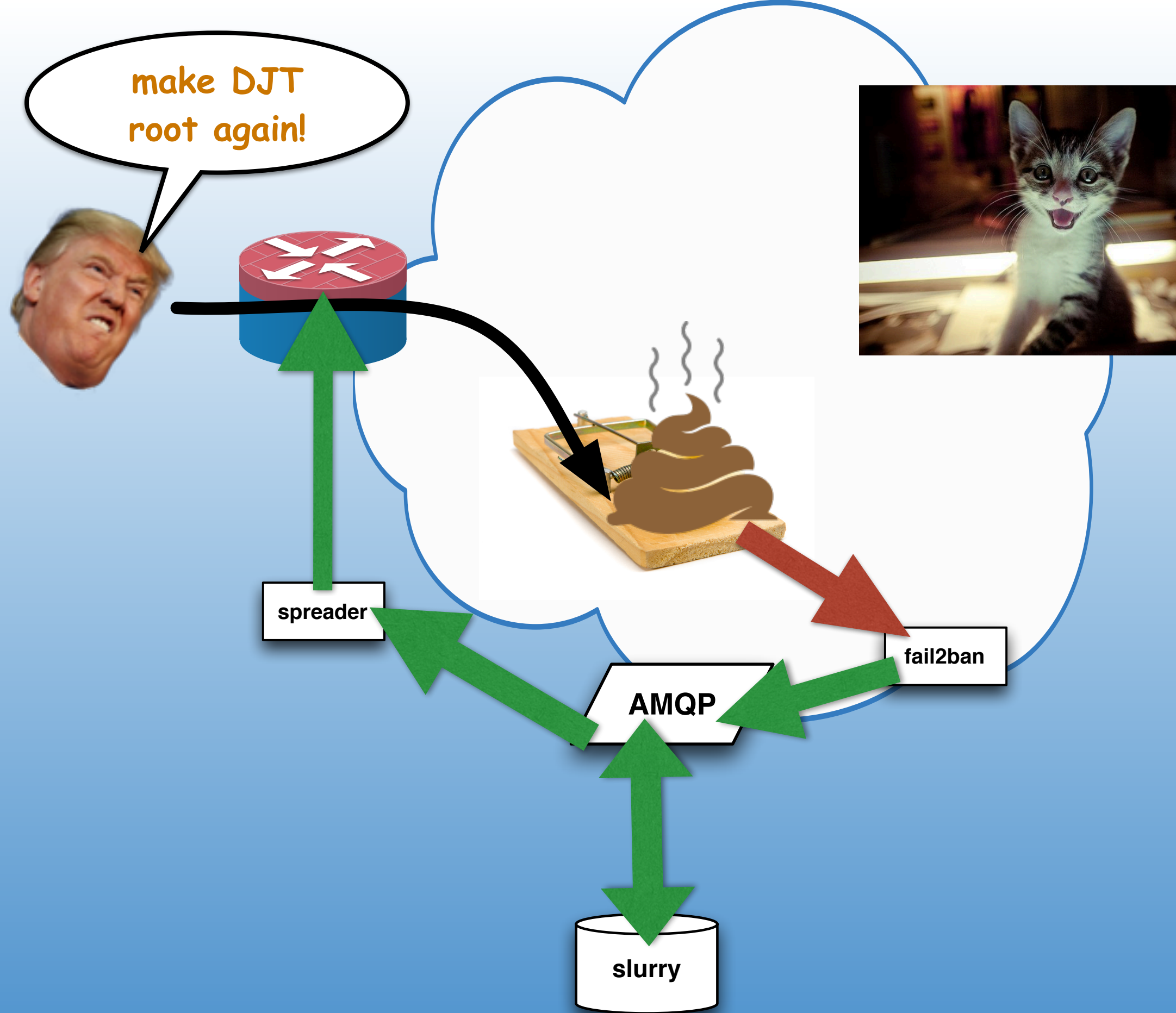
This can happen because:

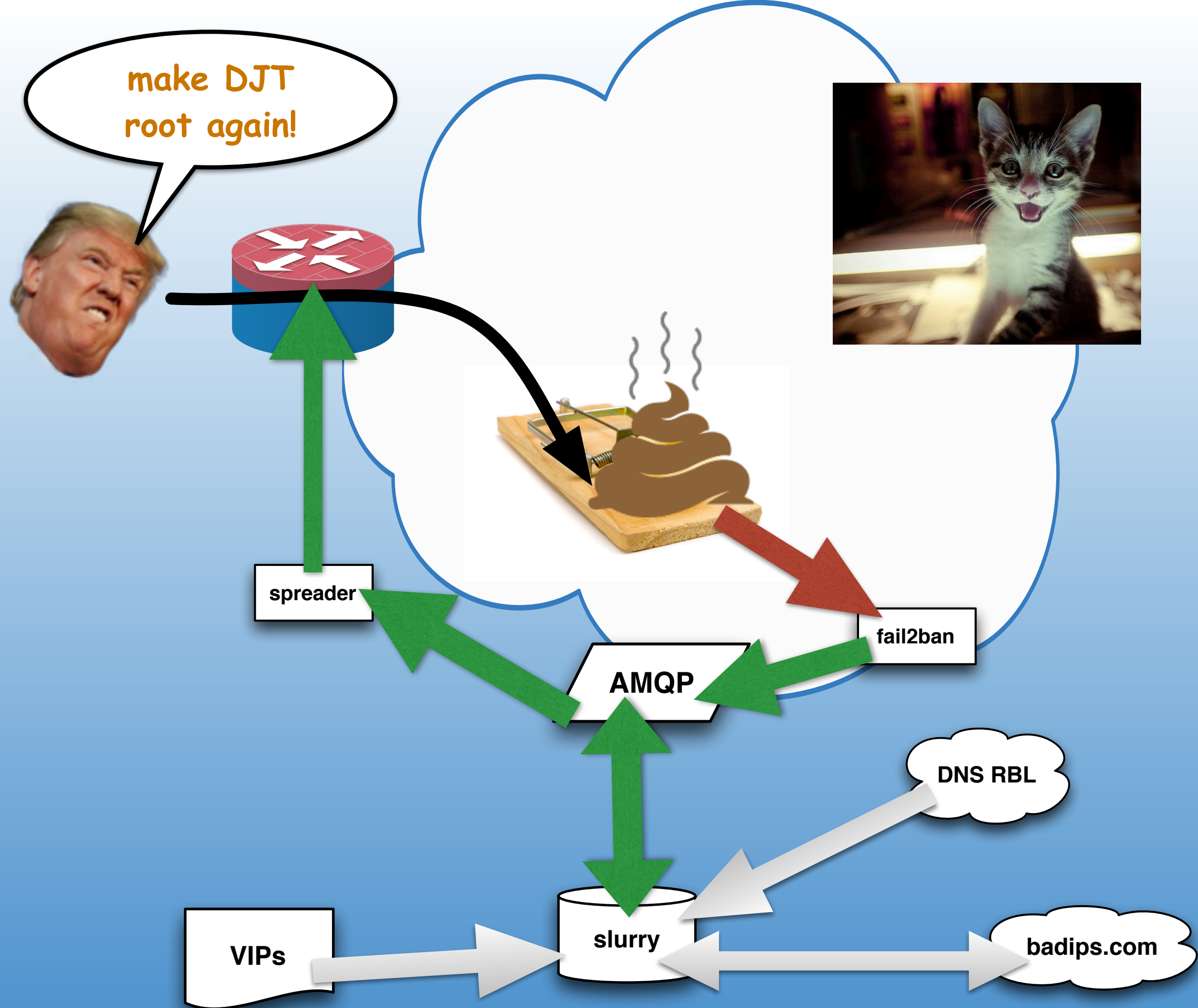
- you — or somebody on your network — has entered the wrong password for a website or other service that we host; to protect against "brute force attacks" to your accounts we apply an automatic but temporary block on access
- you are a "bulk marketing" organisation (email spammer), or "SEO consultant" (comment spammer); we are happy to work with you to help you transition to a more ethical and honest profession, but until you do, please continue to enjoy seeing this message

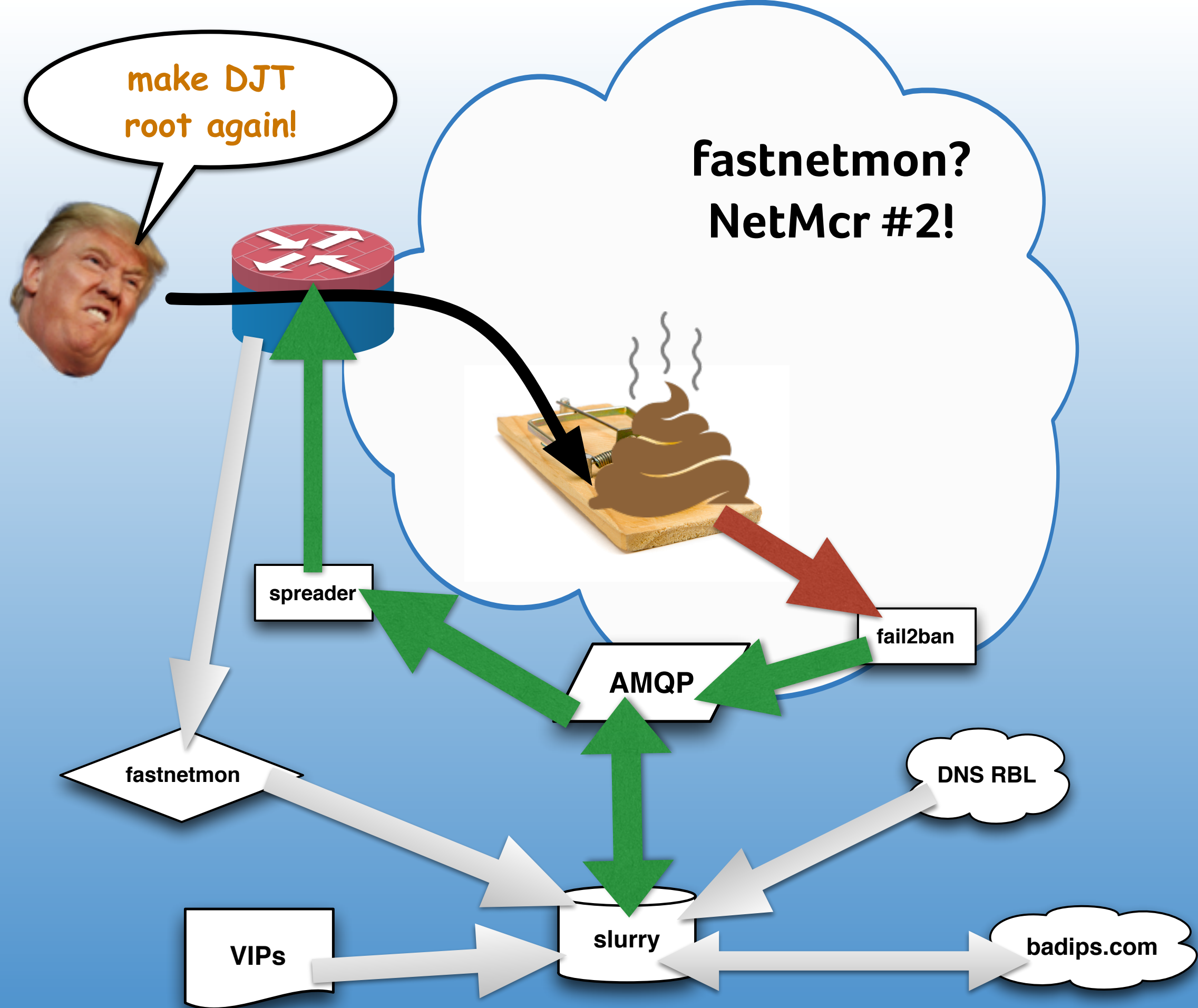
It might not be your fault! Please check:

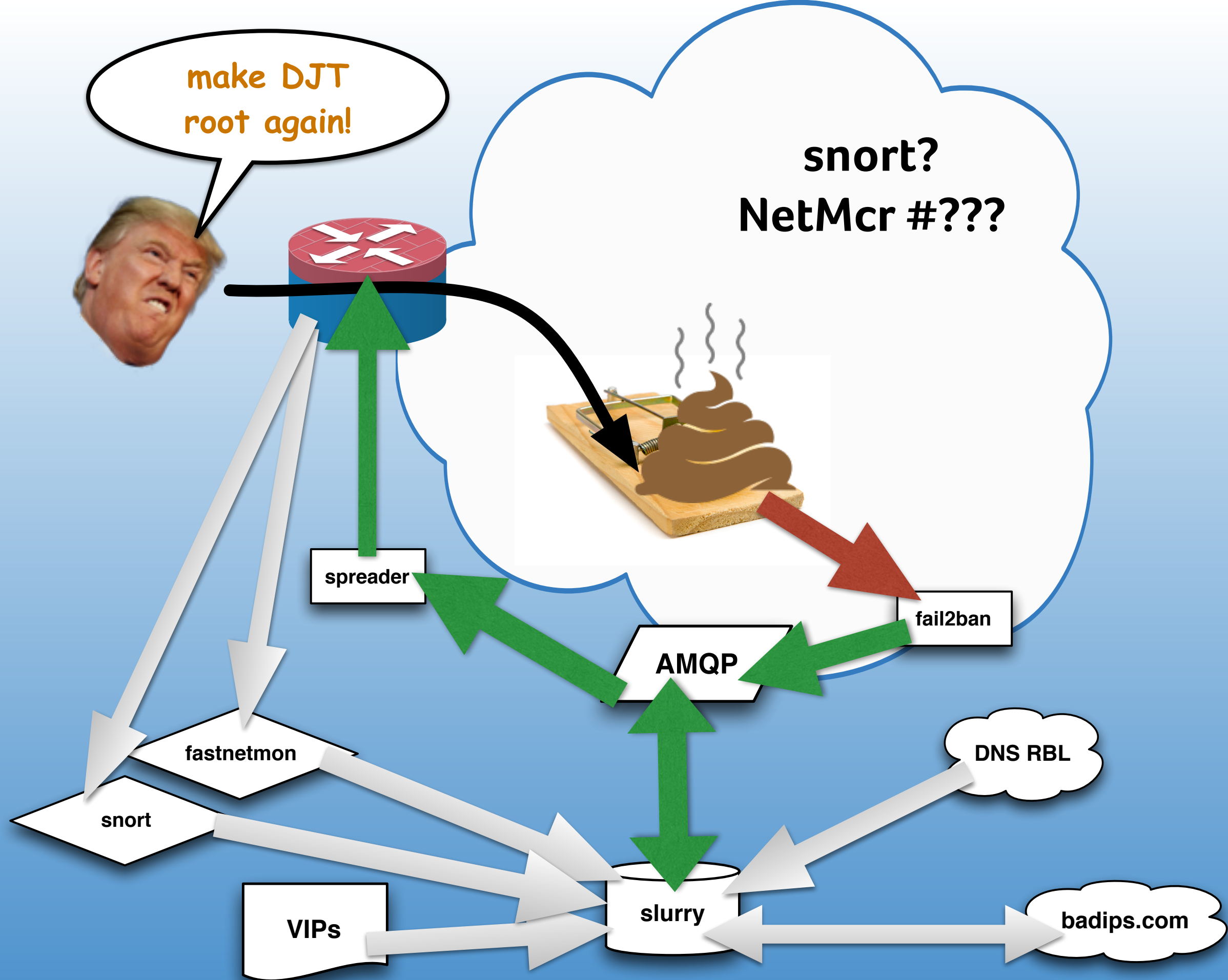
1. that your computer does not have any malware (viruses, botnet payloads, et cetera)
2. that other computers on the same network as you are also clean (other systems that share the same Internet connection)
3. with your IT department if your company uses a proxy or NAT (another system at your organisation might be to blame)

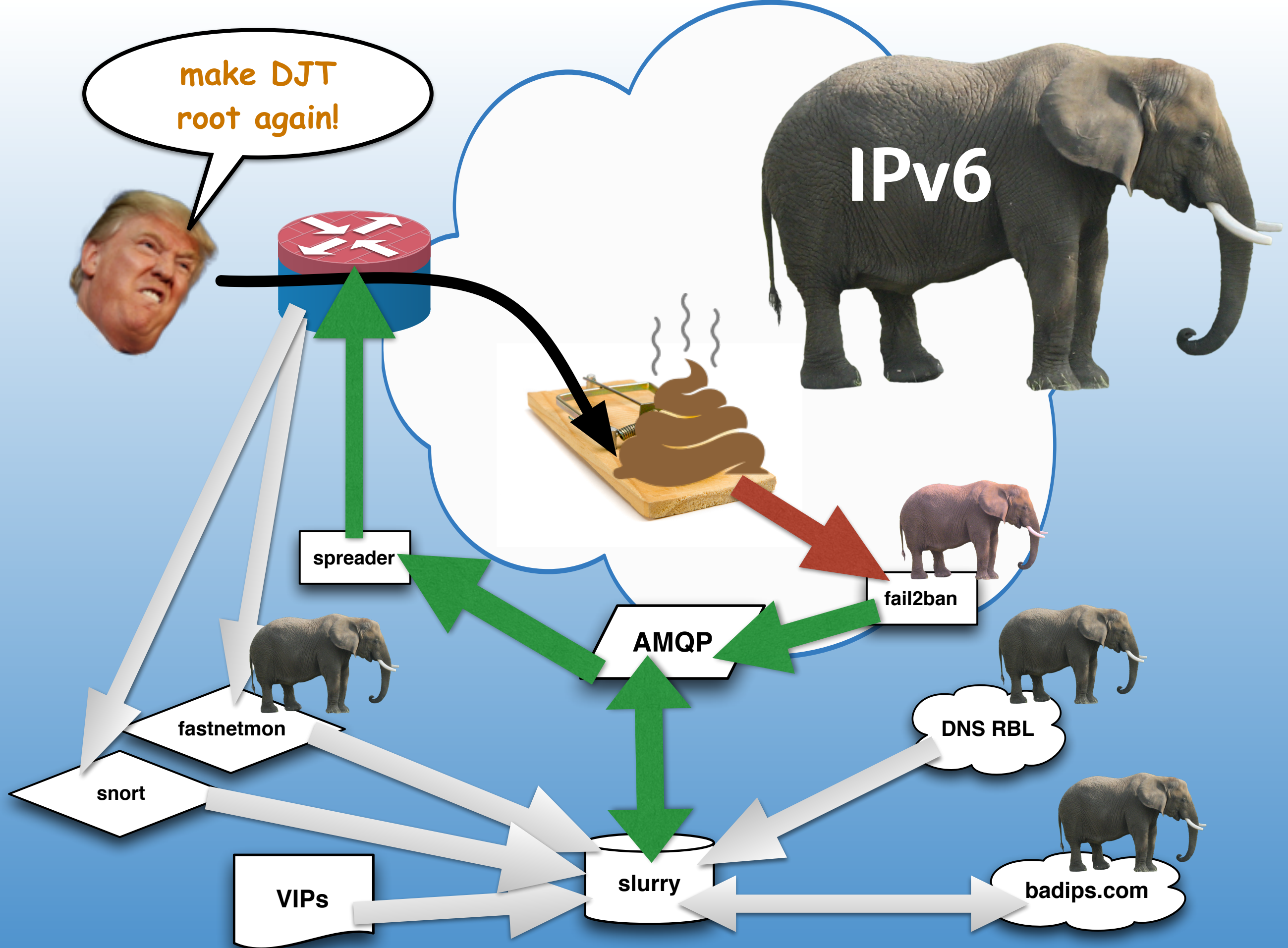
fælix limited

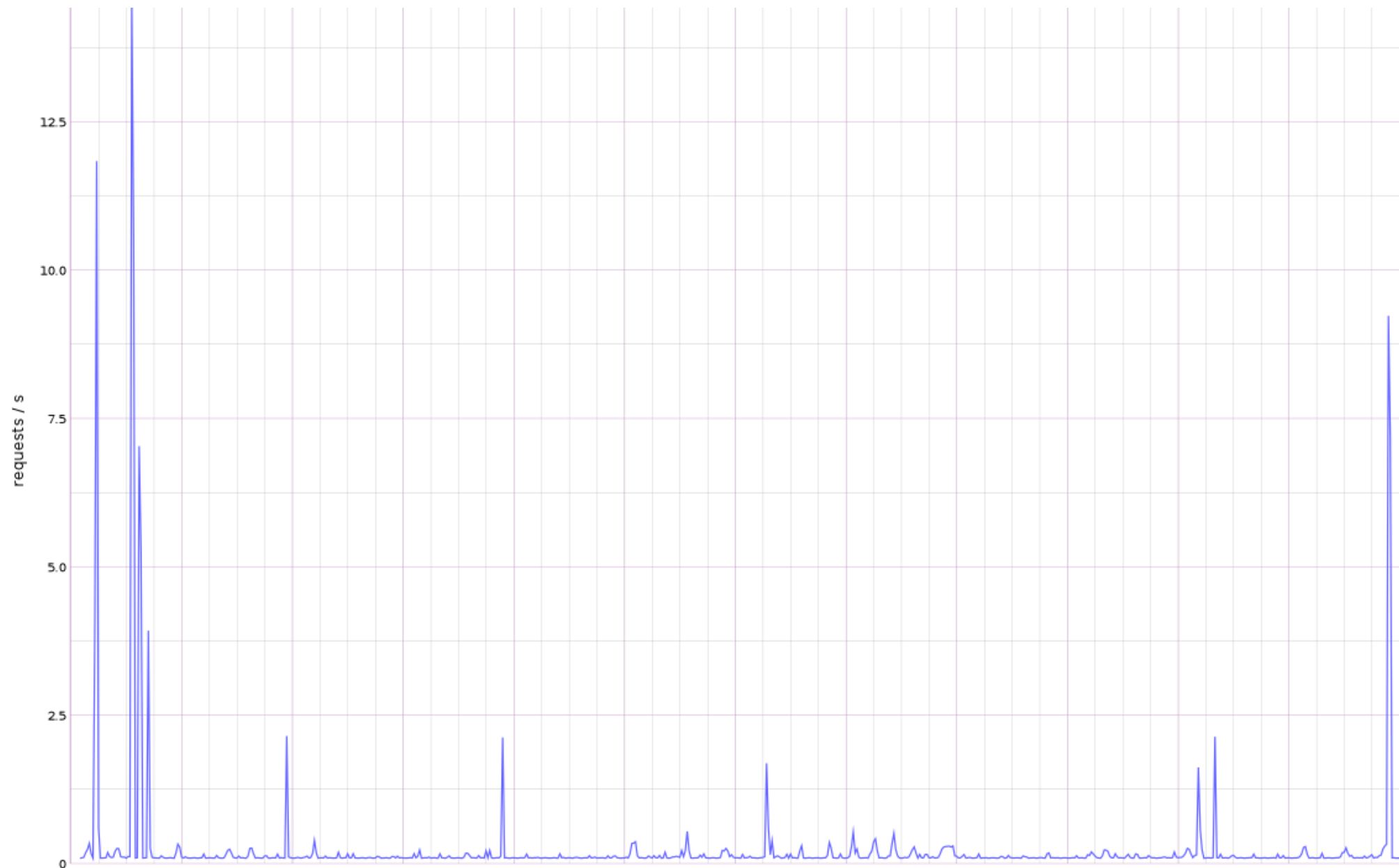






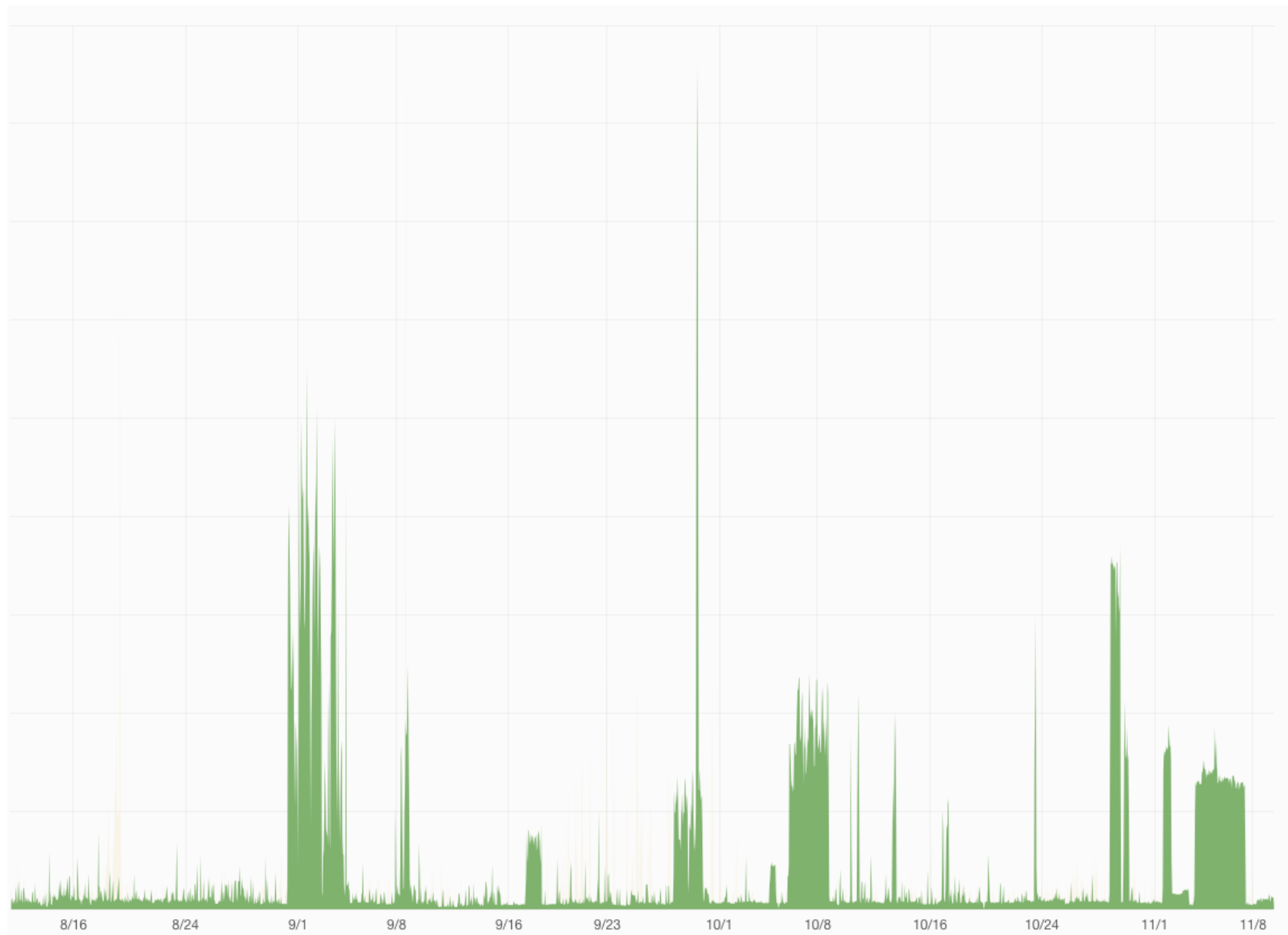






bots = smart

Typical day of traffic in the shitpit:
spike of traffic, bot realises, moves on.



bots = dumb

Last 90 days, showing some ongoing, persistent attackers.

Show me the code!

Show me the code!

:- (

Show me the code!

:-)

soon?

Check these out!

- fail2ban = tail log files, filter them, perform actions
- fastnetmon = am I being DDoSed? uses NetFlow/etc
- portsentry = am I being portscanned?
- mod_security + OWASP = Web Application Firewall
- snort = intrusion detection system

Check these out!

- fail2ban = tail log files, filter them, perform actions
- fastnetmon = am I being DDoSed? uses NetFlow/etc
- portsentry = am I being portscanned?
- mod_security + OWASP = Web Application Firewall
- snort = intrusion detection system
- MikroTik MUM London 2016-11-14 (Monday!)



Q?

E: marek@faelix.net

T: [@maznu](#)